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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/626,624	07/25/2003	Takayuki Kohchi	026350-087	9637
21839 7	7590 10/07/2005		EXAMINER	
	INGERSOLL PC	YU, GINA C		
(INCLUDING BURNS, DOANE, SWECKER & MATHIS) POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER
			1617	

DATE MAILED: 10/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)			
		10/626,624		KOHCHI ET AL.			
Office Action Summary		Examiner		Art Unit			
		Gina C. Yu		1617			
	The MAILING DATE of this communica		over sheet with the c				
Period fo	or Reply			·			
WHIC - Exter after - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAI nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this community of period for reply is specified above, the maximum statuth the toreply within the set or extended period for reply will reply received by the Office later than three months after ed patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS 37 CFR 1.136(a). In no event, ication. tory period will apply and will e I, by statute, cause the applica	COMMUNICATION however, may a reply be tim expire SIX (6) MONTHS from the time to become ABANDONED	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status				•			
1)	Responsive to communication(s) filed	on .					
	This action is FINAL . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
4)⊠	4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.						
·	4a) Of the above claim(s) <u>9-18</u> is/are withdrawn from consideration.						
5)□	☐ Claim(s) is/are allowed.						
6)⊠	Claim(s) 1-8 is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[Claim(s) are subject to restriction	on and/or election req	uirement.				
Applicati	ion Papers						
9)[The specification is objected to by the E	Examiner.	·				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	under 35 U.S.C. § 119						
a)l	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the International See the attached detailed Office action to	ocuments have been ocuments have been the priority documental Bureau (PCT Rule	received. received in Application ts have been receive 17.2(a)).	on No ed in this National Stage			
2) Notice	et(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTC) mation Disclosure Statement(s) (PTO-1449 or PT or No(s)/Mail Date 3/8/05, 7/25/05.	ro/sB/08) 5	n) Interview Summary Paper No(s)/Mail Da i) Notice of Informal Pa				

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DETAILED ACTION

This application appears to be a division of Application No. 09/931,075, filed on August 17, 2001. A divisional application is a later application for a distinct or independent invention, carved out of a pending application and disclosing and claiming only subject matter disclosed in an earlier or parent application. See MPEP § 201.06. As the result of the restriction requirement made by the examiner on September 10, 2002 during the prosecution of the parent application, composition claims were elected. In the present case, claims 9-18 are compositions claims, which are directed to the invention that applicants have already elected in the parent application. Thus, claims 9-18 are withdrawn from consideration in this divisional application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Okubo et al. (JP 9-241637-A, English Translation).

Okubu et al disclose in Table 1 that 0.01-20 mM of citriulline provides antioxidant effect. See Translation, [0086]-[0097]. The reference also discloses in paragraphs [0080]-[0084] that citrullin, along with epigallocatechin, is mixed and incorporated into pharmaceutical agents, food, and in cosmetics to improve the shelf-life of the products.

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Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Waugh (US 5874471).

Waugh discloses a method of using citrulline as an oral supplement. See Examples and Dietary Formulations in col. 10, line 40 – col. 17, line 53. See instant claims 1, 2, 7. The reference teaches that administration of citrulline, a precursor of L-arginine, is effective in increasing endogenous production for nitric oxide and managing atherosclerosis, which is "considered to be a free radical disease". See col. 5, line 23 – col. 7, line 11. See also col. 7, lines 40 – 53 for the teaching that increasing L-arginine level in cell alleviates oxidative stress.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Okubu et al. in view of Ennen et al. (WO 95/15147).

While Okubu et al. teach that citrulline effectively provides antioxidant effect the reference does not mention the specific amount as required by the present claim. Generally, differences in concentration or temperature will not support the patentability of subject matter encompassed by the prior art unless there is evidence indicating such concentration or temperature is critical. "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 CCPA 1955).

Ennen et al. teach cosmetic composition comprising L-citrulline. See abstract. The reference teaches in p. 15, formulation 6 of the original document that 2.5 % of citrulline (MW 175.2) is used in a composition. Thus about 0.143 M, or 143 mM concentration of citrulline is present in the composition, meeting the present claims 2 and 3.

Given the teaching of the antioxidant efficacy of citrulline in cosmetics in Okubu et al., one of ordinary skill in the art would have been obviously motivated to look for a prior art such as Ennen et al., for a specific teaching on the amount of citrulline that is used to make a cosmetic composition. The skilled artisan would have had a reasonable expectation of successfully preserving the cosmetic composition from oxygen injury.

Conclusion

No claims are allowed.

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Claims 1-8 are rejected.

Claims 9-18 are withdrawn from consideration.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gina C. Yu whose telephone number is 571-272-8605. The examiner can normally be reached on Monday through Friday, from 8:30 AM until 6:00 PM..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gina Yu
Patent Examiner

SREENI PADMANABHAN SUPERVISORY PATENT EXAMINER